

# NATIONAL AIR INTELLIGENCE CENTER



VT9000 GPS RECEIVER

**DTIC QUALITY INSPECTED 2**



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**HUMAN TRANSLATION**

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VT9000 GPS RECEIVER

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*Please choose this unique Chinese character graphics display five-channel GPS receiver*

## VT9000 GPS Receiver

### Technical properties

- Five-channel C/A code monofrequency GPS receiver; instrumented body is completely sealed and waterproof;
- Operation methods: Four-star three-dimensional positioning, three-star two-dimensional positioning; completely automatic and manual installation methods of operation;
- Accuracy: positioning: 10–100m, after difference: 1–5m;  
speed measurement: 0.05–0.5m/s, after difference: 0.01–0.1m/s;  
time accuracy: 1 $\mu$ s
- Data renewal rate: 1s;
- Time synchronous output: 1pps second [sic] pulse output;
- Capture time: 45s, recapture time: 10s;
- Dynamic state: capture 1000m/s, 10m/s<sup>2</sup>, 20m/s<sup>2</sup>;  
tracking 1000m/s, 40m/s<sup>2</sup>, 40m/s<sup>2</sup>;
- External difference interface: code rate 1.2K bps, internal FSK modem, can be directly joined to radio station or voice [i.e., telephone] channels;
- External computation interface: RS 232 standard, adjustable baud rate;
- External controlling quantity interface: duplex output, can be used in control of time matching and position mapping;  
duplex input, used in linkage and control;

- Overall dimensions: 220mm × 100mm × 120mm;
- Weight: 0.8kg;
- Power source: externally connected 9–32V DC or internal twelve-node number 5 battery; power consumption: less than 3.5W.

### **Software functions**

- Self-explanatory, easy-to-operate Chinese character menu prompts;
- Navigation positioning results displayed in Chinese characters, clear at a glance;
- Realistic audiovisual graphic representation of navigation meters and flight paths;
- Rich array of navigation information output, including flight path deviation distance, deviation angle, flight path positioning angle, deviation warning, distance already navigated, distance from objective, time already navigated, estimated time of arrival, average flight speed, etc;
- Large-capacity air route point storage and air route point compilation functions, nine flight courses, and up to 512 air route points;
- Can select difference software or external interface compiler program control software.

### **Range of applications**

- Positioning, time service, navigation, and reconnaissance of automobiles, ships, and airplanes.

This deployment point [i.e., our unit] is a professional high-technology department engaged in development of aerospace GPS applications, and has many strengths in this area. It has developed many highly dynamic, highly accurate GPS receivers and GPS transmitter space vehicle surveying systems, as well as GPS satellite simulators and GPS/GLONASS-compatible receivers. Our department has accumulated many years of high, accurate, top-rate GPS

technology and applied techniques. To fulfill the special demands of domestic and international civilian GPS markets, our department has researched and developed a highly reliable, miniaturized, low-priced Chinese character graphics GPS receiver.

Our department can provide special development work according to the individual needs of users, such as: drawing up and calculating parameters of geographical maps, aerial photography, spraying of pesticides, calculating parameters of forest surveying, organizing networks of car, ship, and airplane dispatching systems, organizing networks of difference systems, and communications network timing.

If the user has special needs, this department can also provide products for military use at all levels.

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We sincerely invite contacts from agents nationwide.

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<sup>1</sup> This word, *fenxiang*, was not in any dictionary. It could mean "branch box," "sub-box," or "division box."

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